

POLIGRAPH 140 - TA

V02 25/02/25

1. DESCRIPTION

POLIGRAPH 140-TA is an orthophthalic unsaturated polyester resin of last generation modified with Graphene nanotechnology, for use in the manufacture of nano-hybrid Composites that considerably increases the mechanical, physical and biological properties. The resin is semi flexible type and of medium reactivity. POLIGRAPH 140-TA is pre-accelerated with cobalt salts and contains a thixotropic agent.

2. PROPERTIES

POLIGRAPH 140-TA is characterized by the excellent mechanical characteristics of the laminates manufactured with it, clearly superior to those obtained with other resins of general use. Also, its chemical resistance against diluted acids and alkalis is good. In general, its use is recommended in those cases in which good mechanical and/or chemical properties are required.

3. APPLICATION

POLIGRAPH 140-TA can be applied both in Wet lay-up and Spray lay-up, presenting a minimum drop out on the vertical surfaces due to its thixotropy. Its field of application is wide, being able to be used for the manufacture of boats, tanks, bodies, silos, etc.

4. TECHNICAL CHARACTERISTICS

Appearance	Dark liquid
Exothermic peak temperature (in 43 min)	95 °C
Density	1.05 g/ml
Gel time (25 °C) ⁽¹⁾	25 - 30 min
Brookfield viscosity (H2V50, 25 °C)	300 – 450 cPs

(1) 100/1.5 PMEK

5. MECHANICAL CHARACTERISTICS

Flexural modulus	3 000 - 4 000 MPa
Flexural strength	75 - 95 MPa
Maximum deflection dL	2.5 - 3.5 mm
Tensile modulus	2 000 - 3 000 MPa
Tensile strength	60 - 80 MPa
Elongation at break	3 - 4 %

Mechanical properties of the catalysed resin

6. STORAGE AND PACKAGING

- The product should be **stored in a dry place** at a temperature not exceeding **25 °C**.
- The expiry date is **6 months** under these conditions.
- In general, the products will be supplied in the form of **drums and IBCs**.
- For other quantities and/or packaging: **contact us**.